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(54) Title: COMPONENT B AS CICATRIZANT

(57) Abstract

The present invention relates to the use of Component B as cicatrizant, in particular in the treatment of wounds, ulcers and other traumatic lesions to any of the tissues in the body.

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COMPONENT B AS CICATRIZANT

The present invention relates to the use of Component B as cicatrizant, in particular in the treatment of wounds, ulcers and other traumatic lesions to any of the tissues in the body.

Component B is a 81-amino acid protein originally isolated from human urine. The human gene has been cloned and expressed in CHO cells as recombinant human Component B. The molecule has a molecular weight of about 8.9 kD. It has been thoroughly described in WO 94/14259.

Such protein contains ten cysteines and bears a motif typical of serine protease enzymes. Sequence alignment to a protein data bank has shown some homologies of Component B with known molecules such as CD59, urokinase receptor (uPA-R) and some venom toxins.

Data obtained by the Applicant from the study of organ and tissue distribution in mice showed that eye. lung and skin are the sites in which Component B RNA is mainly expressed. In human tissues. Component B was found to be highly expressed in the squamous epithelia and mucosae, such as skin, oesophagus and exocervix, as determined by immunohistochemistry. Finally, EGF has been found to induce the expression of Component B RNA in human squamous epidermoid A431 cells.

Component B has been reported to have antiinflammatory, anticoagulant and antitumoral activity, as well as an activity as inhibitor of the binding of $TGF-\alpha$ to its receptor.

The Applicant has now found that Component B is also useful as cicatrizant, and it is, therefore, in particular, useful in the treatment of wounds, ulcers and other traumatic lesions to any of the tissues in the body.

Therefore, the main object of the present invention is the use of Component B for the manufacture of a pharmaceutical composition useful as cicatrizant, in particular in the treatment of wounds, ulcers and other traumatic lesions to any of the tissues in the body.

A further object of this invention is a method of treatment of wounds, ulcers and other traumatic lesions to any of the tissues in the body, comprising administering an effective amount of Component B, together with a pharmaceutically acceptable excipient.

CONFIRMATION COPY

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Another object of the invention are pharmaceutical compositions prepared as described above.

For the methods of preparation of Component B and for its amino acid sequence, reference is made to the disclosure of WO 94/14259.

The administration of the active ingredient may be by oral, intravenous, intramuscular, subcutaneous or topical route. Other routes of administration, which may establish the desired blood levels of the respective ingredients, are comprised by the present invention.

For the human therapy the preferred doses are 1 mg/kg or less for the systemic administration and $4 \mu g/cm^2$ or less for the topical administration.

The invention will now be described by means of the following Examples, which should not be construed as in any way limiting the present invention. The Examples will refer to the Figures as specified here below.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1: the effect of the intravenous administration of Component B in comparison with that of betametasone (Bentelan®) on the experimental wound healing is shown. In particular, the results of Experiment 1 are summarised. Test drugs were administered daily for 6 consecutive days from day 0 (the day of wound induction) through 5.

Figure 2: the effect of the intravenous administration of Component B (batch 004-001b) in comparison with that of betametasone (Bentelan[®]) on the experimental wound healing is shown. In particular, the results of Experiment 2 are summarised. Test drugs were administered daily for 6 consecutive days from day 0 (the day of wound induction) through 5.

Figure 3: the effect of the topical application of Component B (batch 004-001) on the experimental wound healing is shown. In particular, the results of Experiment 3 are summarised. Test drugs were topically applied for 5 consecutive days from day 0 (the day of wound induction) through 4.

Figure 4: the effect of the topical application of bovine serum albumin on the experimental wound healing is shown. In particular, the results of Experiment 4 are

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summarised. Test drugs were topically applied for 5 consecutive days from day 0 (the day of wound induction) through 4.

Figure 5: the sigmoidal dose response analysis applied to the results of Experiment 1 is reported. The effect of the intravenous administration of Component B (batches 004-001 and 004-001b, indicated as "001" and "001b", respectively) and betametasone (Bentelan ®) on the experimental wound healing is, therefore, statistically evaluated on the basis of the results of Experiment 1.

Figure 6: the sigmoidal dose response analysis applied to the results of Experiment 2 is reported. The effect of the intravenous administration of Component B (batch 004-001b.

indicated as "001b") and betametasone (Bentelan®) on the experimental wound healing is, therefore, statistically evaluated on the basis of the results of Experiment 2.

Figure 7: the sigmoidal dose response analysis applied to the cumulated results of Experiments 1 and 2 is reported. The effect of the intravenous administration of Component B (batch 004-001b) on the experimental wound healing is, therefore, statistically evaluated on the basis of the combination of the results of Experiments 1 and 2.

Figure 8: the sigmoidal dose response analysis applied to the cumulative frequency, relative to combination of Experiments 1 and 2 is reported. The effect of Component B (batch 004-001b) is so evaluated.

Figure 9: the sigmoidal dose response analysis applied to the results of Experiment 3 is reported. The effect of the topical and intravenous administration of Component B (batch 004-001) on the experimental wound healing is, therefore, statistically evaluated on the basis of the results of Experiment 3.

Figure 10: the sigmoidal dose response analysis applied to the results of Experiment 4 is reported. A comparison of the effect between buffer and BSA in wound reduction is, therefore, statistically evaluated on the basis of the results of Experiment 4.

EXAMPLES

Materials

<u>Animals</u>

SPF CD-1 mice of both sexes, purchased from Charles River Italia (Calco. Como, Italy), were used for the experiments after an acclimatisation period of at least

seven days under controlled environmental conditions (temperature: 22±2°C; humidity: 55±10% and a light/dark cycle of 12 hours).

Test compounds

- rec-hComponent B batch 004-001 (sulphated form) and 004-001b (non-sulphated form) expressed in CHO cells and produced essentially as described in WO 94/14259.
 - Commercial preparation of betametasone (Bentelan®) from Glaxo (Verona, Italy).
 - Sodium chloride 0.9 % (saline), from Baxter (Trieste, Italy).
 - Bovine serum albumin (BSA), fraction V supplied by Sigma Chemical Co. (St. Louis MO, USA).

Methods

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Experimental full-thickness wound healing

The method used was that suggested by J.J.P. Morton and M.H. Malone (Morton J.J.P. and Malone M.H., Arch. Int. Pharmacodyn. 196:117, 1972), who used this procedure for the evaluation of a number of drugs for their vulnerary activity in rats.

For the present study of Component B, the original method was suitably modified to be used in mice, as follows.

A circular ink mark (1 cm diameter) was impressed on the dorsal region of male mice (30-35 g, 6-7 week-old), and the skin of this marked area (including panniculus carnosus and adherent tissues) was excised using surgical scissors and forceps. The wound was then blotted dry with gauze pads until haemostasis occurred. On day 0, i. e. the day of surgery, longitudinal, transverse and two diagonal measurements (relative to the vertebral column) were made of the diameter of the wound to the nearest 0.1 mm using a direct reading caliper. The exact points of measurements were preserved by marking the adjacent skin with indelible ink. Subsequent wound measurements were made every other day except on Sunday up to complete wound closure. Both surgery and measurements were made under light ether anaesthesia of the mice.

The area of each wound was obtained by multiplying the square of its mean diameter by 0.7854. Per cent wound closure was then calculated relative to day 0. The mean per cent wound closure values for each measurement day were tabulated for each experimental group and the closure time 50% (CT₅₀) interpolated.

Systemic treatment

Two experiments (Experiments 1 and 2) were performed. In the second experiment, on each measurement day, the measurements were performed by the same operator who was unaware of the treatment schedules. In each experiment the animals were divided into 4 groups and treated according to the following schedule.

Group number	1st experiment	2nd experiment
1	Saline 10 ml/kg, i.p.	Saline 10 ml/kg, i.v.
2	Component B 004-001,	Component B 004-001b.
	l mg/kg, i.v.	0.1 mg/kg, i.v.
3	Component B 004-001b,	Component B 004-001b.
	1 mg/kg, i.v.	l mg/kg, i.v.
4	Betametasone, 1 mg/kg, i.p.	Betametasone, 1 mg/kg, i.v.

The animals were treated once a day for 6 consecutive days. The body weight of the animals was monitored for the whole duration of the study.

Topical treatment

In a further experiment (Experiment 3) the effect of the topical application of different doses of Component B (batch 004-001) were studied by using the already described procedure for wound induction following the treatment schedule reported in the table herebelow.

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Group number	Treatment
1	Phosphate buffer 0.05 ml, topically
2	Component B 004-001, 1 µg, topically
3	Component B 004-001, 2 µg, topically
4	Component B 004-001, 4 µg, topically
5	Component B 1 mg/kg, i.v.

The solutions of the test product were applied (volume 0.05 ml) onto the wounds on days 1 and 2, whereas in the successive days, when the scab had been formed, they were injected underneath the scab by a syringe equipped with a 25G needle.

Component B administered i.v. at the dose of 1 mg/kg, has been used as positive reference standard.

To rule out the possibility of aspecific effects of topical application of a proteic solution, in a parallel experiment the effect of BSA, at the same molar concentrations (8.8×10⁻⁶M) as Component B, was assayed topically in comparison to phosphate buffer (Experiment 4).

10 Results

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Wound healing

Figure 1 reports the data of the first Experiment, in which the activity of two batches (004-001 and 004-001b) of Component B were compared. Both of them were capable of accelerating the cicatrization process, their effects being already evident after 1 day of treatment. CT₅₀, i.e. the time when 50% wound reduction occurs, is 3.0 and 3.4 days, respectively, these values being not statistically different. By contrast, CT_{50's} of 7.8 and 7.2 days were observed with betametasone (Bentelan[®]) and saline, respectively (see the paragraph entitled "Statistical Analysis").

In the second Experiment (Figure 2) two doses of Component B (batch 004-001b) were studied. At the highest dose, 1 mg/kg, the CT₅₀ was 3.7 days whereas it was of 6.6 days at the lowest dose (0.1 mg/kg). The saline and betametasone treated groups displayed CT₅₀'s of 9.1 and 10 days, respectively (see the paragraph entitled "Statistical Analysis").

The positive effect of Component B on wound healing was also confirmed by another index, namely ET₅₀, indicating the time when 50% of the animals showed complete wound closure (see the paragraph entitled "Statistical Analysis").

The results of the experiment where Component B (batch 004-001) was applied topically onto the wound (Experiment 3), are reported in Figure 3. The compound was studied at doses of 1, 2 and 4 μ g/day for 5 consecutive days. All doses assayed were capable of enhancing the wound healing process as compared to controls. In particular,

doses of 2 and 4 μ g provided CT₅₀ values of 3.8 and 4.4, respectively, which are comparable to that found (3.9) with 1 mg/kg of Component B given i.v. With the lowest dose (1 μ g), a CT₅₀ value of 5.3 days was observed, which is higher than those obtained with the other two topical doses, but still significantly different from controls (see the paragraph entitled "Statistical Analysis").

These data suggest that a dose of 2 µg, topically applied on the wound, produces the maximal effect and that 1 µg is still effective in enhancing the cicatrization process.

In order to verify whether the positive effect of Component B on the wound healing process is a specific characteristic of the product, a parallel experiment was carried out, in which the effect of BSA, at the same molar concentration of Component B, was compared to that of phosphate buffer (Experiment 4). These data are reported in Figure 4. CT50's of 9.9 and 7.9 days were recorded with BSA and phosphate buffer, respectively. The above values are not significantly different (see the paragraph entitled "Statistical Analysis"), thus indicating that a standard protein solution, like BSA, does not influence the cutaneous wound repair.

The individual data of these experiments are reported in Tables 1A-4B.

Statistical Analysis

Statistical strategy

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The statistical analysis was aimed at comparing the effect over the time of two preparations of Component B (Comp. B) both vs saline and the reference drug Bentelan.

Furthermore, the effects of the systemic and the topical administration of one preparation of Component B have been also evaluated.

In accordance with the treatment protocol the effect of the test drugs was studied considering the entire observation period.

The wound reduction experiment was repeated twice in order to confirm the Comp B effect at different dose levels.

Statistical test

The Sigmoidal Dose Response Analysis for the evaluation of the CT₅₀ (i.e. the time when the wound area is reduced by 50%) was used as the statistical test (see Finney D. J., Biometrics, 32, pp. 721-40, 1976).

5 Statistical units

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- 1) Wound reduction (CT₅₀): Average percentage of variation vs average basal values.
- 2) Cumulative Frequency (ET₅₀): Cumulative frequency of animals showing a complete wound closure at each time point.

Groups of treatment (Exp. No 1)

- 10 1 Saline 10 ml/kg/day, i.p. for 6 days
 - 2 Bentelan 1 mg/kg/day, i.p. for 6 days
 - 3 CompB 004-001- 1 mg/kg/day, i.v. for 6 days
 - 4 CompB 004-001b-1 mg/kg/day, i.v. for 6 days

Groups of treatment (Exp. No 2)

- 15 1 Saline 10 ml/kg/day, i.v. for 6 days
 - 2 Bentelan 1 mg/kg/day, i.v. for 6 days
 - 3 CompB 004-001b- 0.1 mg/kg/day, i.v. for 6 days
 - 4 CompB 004-001b- 1 mg/kg/day, i.v. for 6 days

Groups of treatment (Exp. No 3)

- 1 Phosphate buffer- 50 μl/day, topical for 5 days
 - 3 CompB 004-001- 1 µg/day, topical for 5 days
 - 3 CompB 004-001- 2 µg/day, topical for 5 days
 - 4 CompB 004-001- 4 μg/day, topical for 5 days
 - 5 CompB 004-001- 1 mg/kg/day, i.v. for 5 days

25 Groups of treatment (Exp. No 4)

- 1 -Phosphate buffer 50 µl/day, topical for 5 days
- 2 -Bovine serum albumin (BSA) 50 μ l/day (8.8×10⁻⁶M), topical for 5 days

Treatment schedule (for Experiments 1, 2, 3 and 4)

- Phase 1: Repeated treatment days according to the above treatment-group description.
- Phase 2: Observation period up to the day of complete wound closure.

Results of the statistical analysis

The diagrams (sigmoidal dose response analysis) reported in Figures 5-10 summarise the effect of the test drugs using as the variable the wound area.

Experiment. 1

Reference is made to Figure 5.

The results of the sigmoidal dose response analysis (CT₅₀) applied to the wound area, relative to experiment 1, are reported in the following table.

Test Drug	CT ₅₀ (days)	Confidence Limits	R ²
Saline	7.2	6.2 - 8.3	0.96
Bentelan 1 mg/kg	7.8	6.9 - 8.8	0.97
CompB 004-001 1 mg/kg	3.0	2.5 - 3.7	0.97
CompB 004-001b 1 mg/kg	3.4	2.8 - 4.1	0.97

10 Experiment 2

Reference is made to Figure 6.

The results of the sigmoidal dose response analysis (CT₅₀) applied to the wound area, relative to experiment 2 are reported in the following table.

Test Drug	CT ₅₀ (days)	Confidence Limits	R ²
Saline	9.1	8.4 - 9.9	0.98
Bentelan 1 mg/kg	10.0	9.6 - 10.4	0.99
CompB 004-001b 0.1 mg/kg	6.6	5.5 - 7.7	0.94
CompB 004-001b mg/kg	3.7	2.8 - 4.8	0.92

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Combination of Experiments 1 and 2

Reference is made to Figure 7.

The results obtained from the combination of the data of treatment groups common to both experiments I and 2, i.e. saline vs CompB-004-001b I mg/kg are summarised.

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In addition, the frequency over the time of the animals showing complete closure of the wound was also evaluated (by Sigmoidal Dose-Response Analysis) from the cumulated data of Experiments 1 and 2.

The results of the sigmoidal dose response analysis (CT₅₀) applied to the wound area. relative to the combination of experiments 1 and 2, are reported in the following table.

Test Drug	CT ₅₀ (days)	Confidence Limits	R ²
Saline	8.2	7.5 - 8.9	0.95
CompB 004-001b 1 mg/kg	3.5	3.0 - 4.1	0.95

For the cumulative frequency, reference is made to Figure 8.

The results of the sigmoidal dose response analysis (ET₅₀) applied to the cumulative frequency, relative to the combination of experiments 1 and 2, are reported in the following table.

Test Drug	ET ₅₀ (days)	Confidence Limits	R ²
Saline	16.1	15.4 - 16.9	0.98
CompB 004-001b 1 mg/kg	11.7	11.2 - 12.1	0.99

In conclusion, the comparison among CT₅₀ values and among ET₅₀ values is a good estimate of the effect of each test drug on the experimental model.

Both CompB-001 (1 mg/kg, i.v.) and CompB-001b (dose levels 0.1 mg/kg and 1 mg/kg. i.v.) were found to be statistically different from saline and Bentelan in Experiments 1 and 2. The results of the combination of treatment groups common to Experiments 1 and 2 confirm the effect of the i.v. route of administration with CompB 1 mg/kg.

Experiment 3

Reference is made to Figure 9.

A further set of experiments was performed in which the product was topically applied. The intravenous route was used as positive reference standard. The data were analysed using the same statistical models as above.

The results of the sigmoidal dose response analysis (CT₅₀) applied to the wound area, relative to experiment 3, are reported in the following table.

Test Drug	CT ₅₀ (days)	Confidence Limits	R ²
Phosphate Buffer	8.3	7.3 - 9.5	0.96
CompB-001 1 mcg topical	5-3	4.1 - 6.9	0.91
CompB-001 2 mcg topical	3.8	2.9 - 4.9	0.92
CompB-001 4 mcg topical	4.4	3.4 - 5.6	0.92
CompB-001 1 mg/kg i.v.	3,9	3.0 - 5.2	0.92

In conclusion, topical administration of CompB-001b showed, at all doses tested, a wound reduction (CT₅₀) significantly different from phosphate buffer.

Experiment 4

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Reference is made to Figure 10.

The diagram reports the comparison between topical application of phosphate buffer and BSA in wound reduction in order to rule out possible aspecific effects of Component B.

The results of the sigmoidal dose response analysis (CT₅₀) applied to the wound area, relative to Experiment 4, are reported in the following table.

Test Drug	CT ₅₀ (days)	Confidence Limits	R ²
Buffer	7.9	7.2 - 8.7	0.98
BSA	9.9	8.5 - 11.4	0.95

The above results did not show any differences between the topical application of phosphate buffer and BSA.

Conclusions of all the study

The interesting result of this study is the activity of Component B in the cicatrization process both when administered intravenously or by topical application. The experimental model used in this study is directly related to the human trauma counterpart and is predictive for the application of Component B in the healing of traumatic lesions of the skin and in plastic and reconstructive surgery of mucosae and epithelia.

Table 1A: Wound healing data - Experiment 1

				Comp B	0	04-001:	1 mg/kg	, i.v	/ .		·
Day 0	۲	Day)ay	/3		Day	<i>t</i> 5		Day 7
area	area		variat.	area	Ľ	% variat.	area		% variat.	area	% variat.
0.622	0.529		.9518	0.318 -48.8746 0.		0.135	-7	8.2958	0.06	-90.3537	
0.813	0.745		36408	0.566	-3	30.3813	0.604	-2	5.7073	0.483	-40.5904
0.761	0.701		8436	0.341	l	5,1905	0.201	-7	3.5874	0.111	-85.4139
0.644	0.418		.0932	0.289	_	5.1242	0.125		0.5901	0.103	-84.0062
0.825	0.549		4545	0.266		7:7576	0.133	-8	3.8788	0.049	-94.0606
0.724	0.624	_	8122	0.432		0.3315	0.313	-5	6:768	0.251	-65.3315
0.679	0.697		50957	0.402		0.7953	0.214	_	8.4831	0.114	-83.2106
0.709	0.478		8414	0.412		6.4239	0.3		0.9883	0.137	-82.1847
0.709	0.48	-32.	299	0.374	_	7.2496	0.285	-5	9.8025	0.195	-72.4965
0.707	10500					Mean ± S.			 		
0.727	0.580	-20		0.378		8.014	0.257		5.345	0.167	-77.516
0.071	0.116	14.7	36	0.090	10	0.711	0.150	17	.734	0.134	16.334
	0- 0					···					
	Day 9			Day 11		D	ay 14				
area	% vari		area	% varia	t	area	% varia	at.			·
0.039	-93.729		0.031	-95.0161		0	-100				
0.288	-64.575		0.104	-87.2079		0.039	-95.203				
0.06	-92.115		0.009	-98.8173		.0	-100				
0.046	-92.857		0	-100		0	-100				
0.043	-94.7879	9	0	-100		0	-100				
0.173	-76.105		0	-100		0	-100				
0.084	-87.6289		0.104	-84.6834		0.13	-80.8542				
0.196	-86.9961		0.06	-92.1977		0	-100				
0.190	-72.3554	•	0	-100		0	-100				
0.114	94.673			± S.D.		·			· · · · · · · · · · · · · · · · · · ·		
0.086	-84.572		0.034	-95.325		0.019	-97.340				
0.080	10.896		0.044	6.007		0.044	6.382				
Da	ay 16	—	<u> </u>	y 18	Т	- -					
area	% variat	, -	area	% variat.	╁						
0	-100	0			╀						
0.007	-99.139	10		-100 -100	╀						
0	-100	0		-100	╀						·
0	-100	10		-100	╀	·					
0	-100	10		-100	╁						
0	-100	10		-100	\vdash						
0.046	-93.2253			-100	+-						
0	-100	0		-100	\vdash					 -	
0	-100	0		-100	\vdash						
	Mea				\vdash						
0.006	-99.152	To		-100.000	-						
0.015	2.241		000	0.000	-						
			300	0.000	<u> </u>						

Table 1B: Wound healing data - Experiment 1

			Co	mp B	004	<u>001b</u>	: 1	mg/kg	<u>, ί.\</u>	·		· . · ·	
Day 0	0 Day 1		Day 3			<u> </u>	Day 5					Day 7	
area	area		ariat.	area	a % variat.		a	rea	% variat.		a	rea	% variat.
0.535	0.505		0748	0.402	-24.8598		0.	273	-48	972	_	162	-69.7196
0.656	0.611		5976	0.194	-70	.4268	0.	083	-87	3476		017	-97.4085
0.647	0.631		7295	0.365	-43	.5858	0.	3		6321		114	-82.3802
0.813	0.508		5154	0.363	-55	.3506	0.	177		2288		142	-82.5338
0.781	0.622		3585	0.385	-50	.7042	0.	289		9962		169	-78.3611
0.785	0.656	-16.	4331	0.435	-44	.586	0.	334		4522	_	205	-73.8854
0.777	0.559	-28.	0566	0.397	-48	.906		361		5393		259	-66.6667
0.724	0.618	-14.	6409	0.528	-27	7.0718		455		.1547		.323	-55.3867
0.747	0.756	1.20	04819	0.36	-51	.8072	_	.244		.336		.256	-65.7296
0.903	0.729	-19	2691	0.561		7.8738		.27	-70	.0997	0	.175	-80.6202
					M	lean ±	S.D).					
0.737	0.620	-15	001	0.399	-4:	5.517		.279		.676	_	.182	-75.269
0.103	0.083	12.		0.100	13	.438	0	.101	14	717	0	.086	11.665
										•			
	ay 9		Da	y 11			Day	y 14					
area	% variat.	ar	ea	% va	riat.	area		% var				<u> </u>	
0.109	-79.6262	0.0	75	-85.9	813	0.073		-86.35	51				
0	-100	0		-100		0		-100					
0.057	-91.1901	0.0	54	-91.6	538	0		-100					
0.11	-86.4699	0		-100		0		-100					
0.069	-91.1652	0.0	46	-94.1	101	0		-100					
0.146	-81.4013	0.0	008	-98.9		0		-100					
0.179	-76.9627	0.0	26	-96.6		0		-100					
0.235	-67.5414	0.0)17	-97.0		0		-100				-	
0.196	-73.7617			-100		0		-100		- :			
0.077	-91.4729	0.0	049	-94.		0		-100		ļ			·
			Mea	1 ± S.[<u> </u>	···
0.118	-83.959	0.0	028	-95.		0.00	_	-98.6					
0.072	9.844	0.0	027	4.533		0.02	23 4.315			<u> </u>			
													
	Day 16			Day 1									
area	% va	riat.	area		% var	iat.							
0.028	-94.70	664	0		100								
0	-100		0		100								
0	-100		0		100								
0	-100		0		-100								
0	-100		0		-100								
0	-100		0		-100								
0	-100		0		-100								
0	-100		0		-100								
0	-100		0		-100								
0	-100		0		-100								
		Mean	± S.D.										
0.003	-99.4	77	0		-100.								
0.009	1.65	5	0.000	1	0.000								

Table 1C: Wound healing data - Experiment 1

					В	entelan	1mg	g/kg, i.	p.			·	
Day 0	Dá	ay 1				Day 3			Day 5			Day 7	
area	area		variat.	ar	ea	% van	at.	area	% variat.		area	% varia	at.
0.671	0.634	-5.	51416	0.6	4	-4.6199	97	0.507	-24.4411		0.265	-60.506	
0.76	0.737	-3.	02632	0.6	67	-12.23	58	0.535	-29.6053		0.445	-41.447	
0.703	0.737	4.8	36415	0.6	18	-12.09		0.277	-60.5974		0.246	-65.007	
0.885	0.898	1.4	68927	0.6	97	-21.242	29	0.735	-16.9492		0.759	-14.237	
0.788	0.762	-3.	29949	0.7	99	1.3959	39	0.594	-24.6193		0.626	-20.558	
0.701	0.662		56348	0.7	05	0.5706	13	0.493	-29.6719	\neg	0.46	-34.379	5
0.654	0.631	-3.	51682	0.6	66	1.8348	62	0.466	-28.7462		0.491	-24.923	
							n±S						
0.737	0.723		088	0.6		-6.627		0.515	-30.661		0.470	-37.294	
0.080	0.094	3.8	47	0.0	59	8.820		0.138	13.935		0.183	19.567	
			, 										
	Day 9 a % variat. a			Day	11			Day	14				
area			are	а	%	variat.	a	rea	% variat.				
0.201	-70.044		0.199		-70	0.3428	0.05	6	-91.6542			·	
0.352	-53.684		0.339		-55	5.3947	0.09	01	-88.0263				
0.215	-69.416		0.084		-88	3.0512	0		-100				
0.551	-37.740		0.331		-62	2.5989	0.17	6	-80.113				
0.535	-32.100		0.275		_	5.1015	0		-100				
0.302	-56.918		0.162			5.8902	0		-100				
0.263	-59.785	59	0.173			3.5474	0.03	1	-95.2599				
				ean	<u> </u>	.D.							
0.346	-54.242		0.223).275	0.05	1	-93.579				
0.144	14.609		0.095		10.	.627	0.06	5	7.554				
<u> </u>													
	ay 16			Day				·					
area	% varia		area		%	variat.			1 23				
0.011	-98.360		0		-10								
0.008	-98.947	14	0		-10								
0	-100		0		-10								
0.031	-96.497	/2	0		-10				-				
0	-100		0		-10								
0	-100		0		-10								
0.031	-95.259		0 .		-10	0							
0.011			± S.D.										
0.012	-98.438		0.000			0.000							
0.014	1.891		0.000		0.0	00							

Table 1D: Wound healing data - Experiment 1

					Sali	ne 10	ml/k	g, i.p	•				
Day 0	Da	ay 1			Di	ay 3			D	ay 5		Ĺ	Day 7
area	area	% va	ariat	are		% va	riat.	are	a	% var	iat.	area	% variat.
0.937	0.929	-0.85		0.63		-32.12		0.398		-57.524	1	0.275	-70.651
0.997	0.948	-4.91		0.67		-32.29		0.601		-39.719)2	0.463	-53.5607
0.833	0.856	2.76		0.85		2.5210		0.793	3	-4.8019	92	0.749	-10.084
0.804	0.796	-0.99		0.79		-0.870		0.767	7	-4.6019	99	0.751	-6.59204
0.697	0.825	18.3		0.60		-13.19	94	0.644	1	-7.6040	02	0.64	-8.17791
0.729	0.745	2.19		0.62		-14.12	89	0.454	1	-37.72	29	0.385	-47.1879
0.618	0.645	4.36		0.51		-16.18	12	0.32	7	-47.08	74	0.209	-66.1812
0.72	0.594	-17.		0.52		-26.66	67	0.28	7	-60.13	89	0.189	-73.75
						Mea	1 ± \$.	D.					
0.792	0.792	0.42	8	0.65	5	-16.61		0.53	4	-32.40	0	0.458	-42.023
0.127	0.126	9.99		0.11		13.19		0.19		23.444		0.232	29.254
			I										
D	Day 9				11 .			Day	14				
area	rea % variat. are		area	3	% v	rariat.	aı	rea	%	variat.			<u> </u>
0.127			139		-85.	1654	0		-10				
0.366	-63.289		297		-70.	2106	0.03	9	_	5.0883			
0.608	-27.010		339		-59.	3037	0.15	1		1.8727	<u> </u>		···
0.541	-32.711		36		-55.	2239	0.1			7.5622	ļ		
0.512	-26.542	3 0.	347			2152	0.12			1.6356	ļ		
0.331	-54.595	3 0.	238			3525	0.01	2		8.3539	 		
0.132	-78.640	8 0			-10		0		-1		 		
0.085	-88.194	4 0			-10		0_		-1	00	 		
			1	Vlean	± S.1	D			, 		<u> </u>		
0.338	-57.1	79	0.215	5	-73	.434	0.05			3.189			
0.206	26.10)6	0.15	1	19.	519	0.06	53	8.	172	<u> </u>	···	
							· ·						
	Day 16				y 18	<u> </u>	┼						
area		ariat.		rea		variat.	 						
0	-100		0		-10								
0	-100		0		-10								
0.02	-97.5		0		-10		 						
0	-100		0		-10		+-						
0.026	-96.2		0		-10		+						
0	-100		0		-10		+					 	
0	-100		0		-10								
0	-100		0_		-10		+						
ļ		Mean			T .	00.000	 						
0.006	-99.		0.00		_	00.000							
0.011	1.46	53	0.00	Ю	0.0	000		-					

Table 2A: Wound healing data - Experiment 2

			Com	рΒ	004-00	1b: ().1 m	g/kg	, i.v.			
Day 0	Di	ay 1			Day 3				ay 5		Ĺ	ay 7
area	area	% variat	an	ea	% va	riat.	are	a	% vari	at.	area	% variat.
0.679	0.58	-14.580	3 0).561	-17	.3785	0.	566	-16.6	421	0.34	-48.8954
0.693	0.677	-2.308	8 C	.635	-8.	36941	0.	603	-12.	987	0.49	-28.86
1.002	0.759	-24.251	5	0.84	-16	.1677	0.	749	-25.2	495	0.52	5 -47.6048
0.833	0.677	-18.727	5 0	.701	-15	.8463	0.	584	-29.	892	0.40	-51.8607
0.671	0.597	-11.028	3 0	.458	-31	.7437	0.	412	-38.5	991	0.28	2 -57.9732
0.651	0.526	-19.201	2 0	.604	-7.:	21966	0.	556	-14.5	929	0.42	4 -34.8694
0.682	0.755	10.7038	1 0	.452	-33	.7243	0.	512	-24.9	267	0.24	2 -64.5161
0.817	0.601	-26.438	2	0.55	-32	.6805	0.	486	-40.5	141	0.40	-50.0612
0.693	0.538	-22.366	5 0	.418	-39	.6825	0.	307	-55.69	999	0.24	6 -64.5022
0.799	0.58	-27.409	_4	0.58	-27	.4093	0	461	-42.30	029	0.41	8 -47.6846
0.777	0.686	-11.711	7 0	.563	-27	5418	0.	433	-44.2	728	0.28	2 -63.7066
					Mea	1 ± S.	D.					
0.754	0.634	-15.21	0	.578	-2	3.433	0.	515	-31.4	425	0.379	-49.683
0.105	0.081	11.42	0	.120	1	0.927	0.	117	13.	897	0.098	11.427
	Day 9		Day	y 11			Day	/ 14			Day	/ 16
area	% va	riat. a	rea	%	variat.	ar	ea	%	variat.		area	% variat.
0.3		8954	0.196		-71.134		0.009		98.6745		0	-100
0.3		4113	0.139	-7	79.9423		0.039	-	94.3723		0.012	-98.27
0.4	54 -54.	6906	0.146	-8	35.4291		0.058	-	94.2116		0.018	-98.20
0.2		2701	0.053	-9	93.6375		0		-100		0	-100
0.2		5306	0.142	-7	78.8376		0.04	_'	94.0387		0	-100
0.3		4624	0.216	-6	66.8203		0.15	•	76.9585	·	0.052	-92.01
0.1		7537	0.046		93.2551		0		-100		0	-100
0.2		4835	0.177	-7	78.3354		0		-100		0	-100
0.2		6667	0.122		32.3954		0		-100		0	-100
0.4		3.811	0.203		74.5932		0		-100		0	-100
0.2	25 -71.	0425	0.105	-8	36.4865		0.008	_	98.9704		0	-100
					Mear	1 ± S.1	D					
0.2		.274	0.140		80.988		27636		-96.111		0.007	-98.953
0.0	87 10	.150	0.057		8.449		0.046		6.842		0.016	2.408

Table 2Acont.: Wound healing data -Experiment 2

		Comp	B 004-001	b: 0.1 mg	/kg, i.v.	
Day	18	Day	21	Day	23	
area	% variat.	area	% variat.	area	% variat.	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
o	-100	0	-100	0	-100	· .
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	. 0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
		Mean	± S.D.			
0	-100.000	0		0	-100.000	
0.000		0.000	0.000	0.000	0.000	

Table 2B: Wound healing data - Experiment 2

r 			Co	nn P	004-0	015	1 .	ng/kg,	•	**************************************		
Day 0	Da	ay 1			ay 3	OID.	1 1		1.v.		Day	, 7
area	area	% var	iat a	rea	% var	riat	a	rea		variat.	area	% variat.
0.769	0.601	-21.8		0.455	-40.8			0.297		-61.3784	0.121	
0.763	0.525	-31.1		0.493	-35.			0.464		-39.1874	0.451	
0.964	0.712	-26.1	411	0.358	-62.8			0.287		-70.2282	0.134	
0.712	0.573	-19.5	225	0.421	-40.8	3708		0.563		-20.927	0.179	
0.763	0.59	-22.6	737	0.266	-65.1	376		0.155		-79.6855	0.054	
0.793	0.747	-5.80	076	0.415	-47.6	671		0.334		-57.8815	0.185	
0.785	0.451	-42.5	478	0.238	-69.6	815		0.199		-74.6497	0.168	
0.747	0.701	-6.15	797	0.458	-38.6	881		0.398		-46.7202	0.29	-61.178
0.873	0.765	-12.3	711	0.73	-16.3	803		0.667		-23.5968	0.515	-41.008
0.979	0.867	-11.4	402	0.667	-31.8	693		0.594		-39.3258	0.448	-54.239
0.833	0.716	-14.0	456	0.594	-28.6	915		0.528		-36.6146	0.395	-52.581
1.225	0.72	-41.2	245	0.528	-56	898		0.458		-62.6122	0.384	-68.6531
			:		Meai	$n \pm S$.D.					
0.8505	0.664	-21.	247	0.469	-44.	581		0.412		-51.067	0.277	-67.664
0.145	0.117	12.	337	0.148	16.	249		0.161		19.536	0.156	17.540
						L						
	Day 9		Da	y 11			Dá	ay 14		Da	y 16	;
area	% vai	riat.	area	1%1	/ariat.	are		% van	iat	area	% variat.	
0.0		7178	0.044		4.2783		0		100	0		
0.34		9148	0.146	, -	80.865		0		100	0		
0.0		.888	(-100		0		100	0		
0.11			0.021	-9	7.0506		0	-	100	0		
0.0			(-100		0	-	100	0		
0.06			0.024	-9	6.9735		0		100	0		
0.03			C		-100		0	-	100	0	-100	
0.13			0.038		94.913		0	_	100	0	-100	
0.34			0.192	+	8.0069		0		100	0	-100	
0.18		.001	0.019		8.0592		0	-	100	0	-100	,
0.23			0.159		0.9124		0	-	100	0	-100	
0.39	02	-68	0.148		7.9184		0		100	0	-100	-
	ial -				an ± S.	D.						
.0.17		.451	0.066		92.415		0	-100.0		0	-100.000	
0.13	3 14	.429	0.073		8.257	0.0	000	0.0	000	0.000	0.000	

Table 2C: Wound healing data - Experiment 2

			Bente	lan 1 mg/kg	g, i.v.					
Day 0	D	ay 1	D.	ay 3	Da	y 5		Da	y 7	
area	area	% variat.	area	% variat.	area	% v	ariat.	area	% var	
0.789	0.813	3.041825	0.767	-2.78834	0.615	-2	2.0532	0.565	-28.	
0.769	0.831	8.062419	0.846	10.013	0.833	8.3	322497	0.751		3407
0.805	0.741	-7.95031	0.751	-6.70807	0.763	-5	.21739	0.525	-34.1	
0.751	0.86	14.51398	0.825	9.853529	0.997	32	.75632	0.586	-21.9	
0.842	0.864	2.612827	0.858	1.900238	0.773	-8	.19477	0.675	-19.	
0.856	0.739	-13.6682	0.769	-10 1636	0.712	-1	6.8224	0.636	-25.	
0.651	0.679	4.301075	0.69	5.990783	0.626		.84025	0.555		7465
0.769	0.679	-11.7035	0.636	-17.2952	0.656		4.6944	0.622		1157
0.763	0.86	12.71298	0.869	13.89253	0.777		834862	0.751		7274
0.675	0.679	0.592593	0.769	13.92593	0.709		037037	0.655		6296
0.805	0.667	-17.1429	0.69	-14.2857	0.72		-10.559	0.622		7329
0.644	0.886	37.57764	0.809	25.62112	0.565	- 1	2.2671	0.551	-14	1.441
				Mean ± S.D	•				,	
0.760	0.775	2.746	0.773	2.496			-3.808	0.625		7.383
0.070		14.999	0.073	13.020	0.115	<u> </u>	14.627	0.074	1	0.667
	Day 9	Dá	ay 11	Dá	y 14			Day 16		
area	% varia	t. area	% variat.		% vari		area	% va		
0.317	-59.82	26 0.258	-67.30				0.08		.7338	
0.424	-44.86	35 0.344	-55.26				0.1		.6957	
0.45	-43.22	98 0.312	-61.24				0.00		.8012	
0.75	0.5326	23 0.587	-21.83				0.2		.2383	
0.54	-35.27	32 0.315	-62.58				0.02		9121	
0.43	3 -49.76	0.259	-69.7			.215	0.0		9112	
0.39	6 -39.17	0.24	-63.13			0937	-	0	-100	
0.43	3 -43.69	0.309	-59.81			4317	0.0		06.749	
0.59	4 -22.14	0.433	-43.25			9423	0.0		97.903	
0.41	5 -38.5	0.325	1			9259			4.6667	
0.49	9 -38.0	0.302				4969			8.3851	
0.31	2 -51.5	528 0.124			3 -94	8758	1	0	-100	
				Nean ± S.D.			T		02.000	
0.46	5 -38.	793 0.317				8.955			93.250	
0.12	2 15.	500 0.112	14.	749 0.08	8 1	1.768	0.0	61	8.146	L

Table 2Ccont.: Wound healing data - Experiment 2

			Bentelan	mg/kg, i.	.v.	
Day	/ 18	Day		Day		
area	% variat.	area	% variat.	area	% variat.	
0.02	-97.4651	0	-100	0	-100	
0.059	-92.3277	0.047	-99.417	0	-100	
0.01	-98.7578	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
0.015	-98.0494	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
0	-100	0	-100	0	-100	
		Mean :	E S.D.			
0.009	-98.883	0.004	-99.951	0.000	-100.000	
0.017	2.250	0.014	0.168	0.000	0.000	

Table 2D: Wound healing data - Experiment 2

					Salin	e 10	ml/kg	, i.\	, ·							
Day 0	I	Day 1			Di	ay 3				ay 5	5		<u> </u>	D	ay 7	
area	area		rariat.	ar	ea	% va	niat.	а	rea	%	val	riat.	are	ea	% t	variat
0.58	0.594		3793	0.53		-7.758		0.5	38	-7.:	241	38	0.4	66		.6552
0.773	0.755		2859	0.76		-1.293	366	0.5	84	-24	.45	02	0.5			.4256
0.735	0.785		2721	0.7		5.986		0.7	735	0			0.6	22		.3741
0.805	0.666		2671	0.6		-18.63	335	0.6	515	-23	60	25	0.3	85		.1739
0.701	0.629	-10.		0.63		-10.27	71	0.5	546	-22	2.11	13	0.4	93	_	.6719
0.686	0.671		8659	0.5		-14.80	588	0.5	535	-22	2.01	17	0.4	78		.3207
0.601	0.59		3028	0.5	8	-3.49	418	0.:	536	-10	0.81	53	0.4			.9584
0.759	0.747		8103	0.7	2	-5.13	834	0.0	527	-17	7.39	13	0.5	51	-27	.4045
	<u> </u>					Mean	± S.C).								
0.705	0.680	-3.2	81	0.6	56	-6.93	4	0.	590	-1:	5.95	3	_	01		3.373
0.080	0.075	7.43		0.0	90	7.796)	0.	069	8.9	978		0.0	074	10	.892
		<u> </u>														
D	ay 9	Ī	Da	y 11			Da	ay 14	١	l_		Da	y 16			
area	ea % variat. area				variat	. ar	rea	%	variat	:]	are	ea	% 1	varia	et.	
0.325	-43.965		206		.4828		06	-64	4828		0.10	4	-82.			
0.339	-56.144		238		.2109			-76	5847	- 1	0.11	6	-84.	9935	5	
0.436	-40.680		187	-74	.5578	0.1	97	-73	1973		0.06	7		8844		
0.408	-49.316		28	-6:	5.2174	0.2	16	-73	1677		0.04			161:		
0.369	-47.360		.249	-64	1.4793	0.2	38	-66	.0485		0.03	36		864	5	
0.246	-64.139		.273	-60	0.2041	0.1	75	-74	.4898		0		-100			
0.282	-53.07		.297	-50	0.5824	0.2	01	-66	.5557		0.04			013		
0.469	-38.20	$\overline{}$.377	-50	0.3294			-68	.3794		0.0	36	-95	.256	9	
					Me	an ±	S.D.									
0.359	-49.11	2 0	.263	-6	2.383	0.2	0675		70.363		0.0			.780		
0.076	8.541	0	059	8.4	460	0.0)24	4	524		0.0	38	5.8	07		L
1	Day 18		l	Day				D	ay 23							
area	3 %1	rariat.	are	а	% v	ariat.	ar	ea	%	varia	at.					
0.027	-95	3448	0		-100		0		-10							
0.041	-94	696	0.027		-96.	5071	0		-10			<u> </u>				
0	-10	0	0		-100)	0		-10			ļ				
0	-10	0	0		-100		0		-10	00		<u> </u>				
0	-10	0	0		-100		0		-10							
0	-10	0	0		-100		0_		-19							
0			0		-100		0		-19			╁				
0.017	-97	.7602	0		-100		0		-1	00		 				
			^	<u>lean</u>	± S.[<u>-</u>									
0.011	-98	.475	0.003			563	0.00			00.0	00	-				
0.016	2.2	75	0.010		1.23	35	0.00	00	0.	000						

Table 3A: Wound healing data - Experiment 3

			Compo	nent	B (0	04-00	1) 1	па			· · · · · · · · · · · · · · · · · · ·
Day 0	Da	ay 1		ay 3	····	1		ay 5		ſ	Day 7
area	area	% variat.	area		ariat.	are		% varia	it.	area	% variat.
0.746	0.709	-4.95979	0.584	-21.		0.47		-36.059	•	0.305	-59.1153
0.92	0.659	-28.3696	0.404	-56.0		0.304		-66.9565		0.242	-73.6957
0.687	0.618	-10.0437	0.466	-32.		0.444		-35.3712	_	0.41	-40.3202
0.818	0.822	0.488998	0.503	-38.5		0.388		-52.5672	_	0.372	-54.5232
0.742	0.571	-23.0458	0.451	-39.2	2183	0.399	,	-46.2264	$\overline{}$	0.372	-49.8652
0.716	0.677	-5.44693	0.636	-1 T.1		0.548		-23.4637		0.503	-29.7486
0.833	0.638	-23.4094	0.487	-41.5	366	0.402		-51.7407	_	0.377	-54.7419
0.659	0.52	-21.0926	0.49	-25.6	5449	0.425	,	-35.5083	_	0.332	-49.6206
0.738	0.724	-1.89702	0.571	-22.6	5287	0.491		-33.4688		0.466	-36.8564
0.705	0.545	-22.695	0.233	-66.9	504	0.195	,	-72.3404		0.152	-78.4397
				Mea	an ± S	S.D.					
0.756	0.648	-14.047	0.471	-35.5	663	0.407		-45.370		0.353	-52.693
0.079	0.091	10.696	0.112	16.7	59	0.100		15.606		0.103	15.277
		···									
D	ay 9		y 11		Da	y 14		Ε	ay	16	
area	% variat.	агеа	% variat.	a	rea	% va	niat.	area	7	% variat.	
0.41	-45.0402	0.129	-82.7078	0.0	56	-92.4	933	0	T -	100	
0.181	-80.3261	0.09	-90.2174	0.0	08	-99.1	304	0	-	100	
0.366	66 -46.7249 0.15		-78.1659	0.0	99	-85.5	895	0	7-	100	
0.345	-57.824	0.198	-75.7946	0.0	63	-92.2	983	0.033	1-	95.9658	
0.271	-63.4771	0.12	-83.8275	0		-100		0	1-	100	
0.475	-33.6592	0.267	-62.7095	0.0	2	-97.2	067	0	Τ.	100	
0.35	-57.9832	0.204	-75.5102	0.0		-94.5	978	0		100	
0.246	-62.6707	0.11	-83.308	0.0		-97.4	203	0	<u> </u>	100	
0.401	-45.664	0.18	-75.6098	0.0		-95.7	995	0.008	[-	98.916	
0.11	-84.3972	0.189	-73.1915	0.0	_	-98.8	652	0.008	<u> </u>	98.8652	
222					$n \pm S$					· .	
0.316	-57.777	0.164	-78.104	0.0	35	-95.34	40	0.005		99.375	
0.112	15.939	0.054	7.507	0.0	31	4.340		0.010	1	.284	
	ay 18		Day 21		1		22				
area	% varia	at area		ariat.	 		23				
0	-100	at. area	-100		$\frac{a}{0}$	rea		variat.			
0	-100	0	-100		0		-10				
0	-100	0	-100		0		-10				
0	-100	0	-100		0		-10 -10				
0	-100	0	-100		0		-10				
0	-100	0	-100		0		-10				
0	-100	0	-100		0		-10				
0	-100	0	-100		0		-10				
0	-100	0	-100		0		-10				
0	-100	0	-100	ų.	0		-10				
			ean ± S.D		<u> </u>			-			
0	-100.000		-100		0		-10	<u> </u>			
0.000	0.000	0.000	0.000)	0.00	0	0.00				
		1 0.000	0.000	1	0.00		0.0	<u> </u>			

Table 3B: Wound healing data - Experiment 3

					Pho	osphat	e b	uffer				
Day 0	Di	ay 1			Day				Da	y 5	D	ay 7
	area	% va	ariat	area		% vari	at.	area	$\overline{}$	% variat.	area	% variat.
area	0.75	-4.45		0.747		4.8407		0.285	\dashv	-63.6943	0.271	-65.4777
0.783	0.768	14.1		0.731		3.61812	_	0.626	\neg	-6.98366	0.612	-9.06389
0.785	0.772	14.7		0.747		4.8407		0.487		-37.9618	0.439	-44.0764
0.902	0.902	0	1023	0.862		4.4345		0.754	\neg	-16.408	0.739	-18.071
0.785	0.742	-5.4	7771	0.766		2.4203		0.535	_	-31.8471	0.531	-32.3567
	0.694	0		0.672		-3.1700		0.448		-35.4467	0.433	-37.6081
0.694	0.846	15.4	161	0.743		1.36425		0.506		-30.9686	0.487	-33.5607
0.733	0.742		1141	0.778	_	16.8168		0.535		-19.6697	0.475	-28.6787
0.666	0.742		9063	0.687		-10.546		0.312		-59.375	0.322	-58.0729
0.768	0.763	1 -0.3	7003	1 0.007		Mean						
0.766	0.776	5.03	6	0.748		-0.384		0.499		-33.595	0.479	-36.330
0.755		8.69		0.055		8.301		0.145		18.710	0.141	17.828
0.074	0.062		1 0.055	<u></u> _	0.501		1 0.1.15		<u> </u>			
	ω 0	-T		ay 11		T	Da	y 14		Da	y 16	
				% vai	riat	are		% varia	at.	area	% variat.	
area			221	-71.84		0.107		-86.369		0.042	-94.6497	
0.26	-66.879		217	-67.75		0.057		-91.530		0	-100	
0.522	-22.436		374	-52.35		0.15		-80.891		0.096	-87.7707	
0.401	-48.917			-64.07		0.10		-88.580	-	0.038	-95.7871	
0.601	-33.370		324	-54.39		0.10.		-80.89		0.04	-94.9045	
0.535	-31.847		358	-65.70		0.12	2	-81.55		0.053	-92.3631	
0.382	-44.956		238	-59.07		0.12		-86.35	_	0.058	-92.0873	
0.46	-37.244		.3	-60.36		0.10	1	-84.83		0.102	-84.6847	
0.255	-61.711			-64.97		0.02		-96.74		0	-100	
0.297	-61.328	51 0	.269	-04.77	-	Mear	_					
	1		206	(2.29		0.10		-86.41	8	0.048	-93.583	T
0.413	-45.410		.285	-62.28		0.10		5.300	<u> </u>	0.036	5.084	
47,474	15.475		.058	6.308		0.04	-	1 3.300		1 0.050		
	Day 49		T	Day	, 21			Day	123	3		
ļ	Day 18		 			raniat				6 variat.		
area		ariat.	\leftarrow	rea		rariat.		area		00		
0	-100		0		-100		0		_	100		
0	-100		0		-100		0			100		
0	-100		0		-100		0			100		
0.008		1131	0		-100		0		+	100		
0.012		4713	0.0			4713	0		-	100		
	0.00			08		.8473	0			100		
0.008 -98.9086 0 0.092 -86.1862 0					-10		0			100		
0.092	95	+	.7357	0			100					
0	-10	0	0		-10		1	<u> </u>	نــــــــــــــــــــــــــــــــــــــ	100		
L								S.D.	1	100.000		
0.018	-97	.419	0.0			.117		000	-	100.000		
0.031	4.6	11	0.0	31	4.6	80	0.	000	10	0.000		

Table 3C: Wound healing data - Experiment 3

				<u> </u>			D (004	001	\ 4						
Day 0	D.	ay 1		Co			B (004	-001						7	
area			· · · · ·	_		Day 3				ay 5				ay 7	-
0.826	area	_	variat.	-	rea		ariat.		rea	% va		are		% vari	
0.731	0.604		.8765	0.5		-38.0		0.29		-64.52		0.24		-69.97	
0.785			3.1327	0.5		-29.5		0.31		-49.24		0.32		-55.67	
0.783	0.659		5.051	0.5		-31.4		0.43		-45.22		0.35		-54.39	
	0.742		59651	0.6		-25.1		0.49		-38.97		0.42		-46.824	
0.727 0.785	0.691		95186	0.6		-7.01		0.50		-29.98		0.46	_	-35.62	
0.783	0.581		.9873	0.5		-35.5		0.37		-51.71		0.27		-64.580	
0.860	0.523		.6074	0.3		-62.0		0.21		-74.82		0.16		-81.40	88
0.799	0.526		1.0211	0.5		-23.1		0.40		-46.23		0.319		-57.86	
0.799	0.568		.1677	0.3		-60.0		0.23		-70.46		0.169		-78.84	
0.61	0.308	-29	.8703	0.4	30	-46.9		0.37	/4	-53.82	.72	0.292	2	-63.950	<u> </u>
0.789	0.630		022		<u> </u>		$n \pm S.1$					· · · · ·	····		
0.789	0.620		.027	0.5		-35.8		0.37		-52.50		0.304	_	-60.91	
0.043	0.072	11.	842	0.1	14	16.88	13	0.09	98	13.98	7	0.099	9	13.999	
	2011														
	ay 9				y 11		<u></u>		y 14				/ 16		
area	% van		are	a		ariat.	are	ea ·		variat.	ar	rea	%	variat.	
0.187	-77.360		0.106		-87.		0.02		-	.5787	0		-10	00	
0.208	-71.545		0.132			9425	0		-10		0		-10	90	
0.223	-71.592		0.102		-87.		0		-10		0		-10	ю	
0.283	-64.75		0.126			3088	0.01			7547	0		-10	90	
0.311	-57.22	_	0.145		-80.0		0		-10		0		-10	00	
0.188	-76.051		0.008		-98.9		0		-10		0		-10	ю	
0.138	-84.064		0.008	-	-99.0		0		-10		0		-10		
0.264	-65.125		0.135		-82		0.042			4518	0		-10		
0.212	-78.347	-	0.081		-89.8		0		-10		. 0		-10		
0.212	-73.827	- 1	0.082		-89.1		0		-10)	0		-10	00	Щ
0.210	71.000						$n \pm S.L$)				·			
0.219	-71.989	<u>'</u>	0.093		-88.0		0.007			079	0.000			0.000	
0.033	7.837	1	0.049		6.66	2	0.014		1.8	17	0.000		0.0	00	
Di	ay 18	. 1	i	Day	/21			Day	, 23						
area	% varia	at	area		% v	ariat	250			oriot.				<u></u>	
0	-100	<u>αι.</u>	0	<i>a</i>			are	a		variat.					
0	-100	\dashv	0		-100 -100		0		-100						
0	-100	\dashv	0		-100		. 0		-100						
0	-100		0		-100		0		-100						
0	-100	-+	0		-100		0		-100						
0	-100		0		-100		0		-100					···	
0	-100	-	0		-100		0		-100						\dashv
0	-100	-+	0		-100		0		-100						
0	-100	\dashv	0		-100		0		-100						
0	-100	\dashv	0		-100		0		-100						\dashv
	1			l	± S.D				-100	' - 					\dashv
0	-100.00	<u></u>	0	jaii :					100						_
0.000	0.000				-100		0 000		-100						\dashv
0.000	1 0.000		0.000		0.000	<u>, </u>	0.000		0.00	U					

Table 3D: Wound healing data - Experiment 3

						nent B		4-00	1) 2	μg				
Day 0		Day 1	·			ay 3	(00			ay 5			D	ay 7
area	area		variat.	a	rea	% va	riat.	а	rea	% va	ariat.	are	a	% variat.
0.776	0.591		8402	0.5		-25.64		0.2		-63.6		0.202	2	-74.2675
0.785	0.548		1911	0.4		-43.05		0.3		-53.9	948	0.30	9	-60.1804
0.776	0.68		.3711	0.5		-24.35		0.4	35	-44.0	874	0.31	9	-58.9974
0.778	0.498		.990	0.1		-75.06		0.1	79	-76.9	933	0.11	2	-85.567
0.776	0.428		.845	0.1		-76.41		0.1	52	-81.0	71	0.09	2	-88.543
0.803	0.638		.548	0.5		-25.65		0.4	27	-44.	183	0.36	5	-52.2876
0.765	0.72	-5.8		0.6		-14.11		0.4	96	-41.	3018	0.35	7	-57.7515
0.845	0.591		.059	0.5		-39.40	83.	0.4	27	-47.	284	0.33	7	-58.3951
0.81	0.669	_	.407		67	-30	- + <u>()</u> (0.5	18	-36.	0494	0.35	5	-56.1728
0.834	0.631		.341		169	-43.76	55		116	-60.	2416	0.23	3	-70.6844
0.034	0.051	1		1			n ± S	S.D.						
0.7948	0.599	1 -24	1.547	104	179	-39.74			359	-54.	884	0.26	8	-66.285
0.7946	0.089	_	398		165	21.09			125	15.3		0.10		12.797
0.027					. 0.5	1				<u> </u>				
	2014 ()	Т		Da	y 11			Da	y 14				Day	16
	Day 9 rea % variat. a					rociat	20	ea	% va	oriat	a	rea		% variat.
area			are	a		variat.	0	ca	-100		0	ou	-10	
0.173	-77.70	_	0.063			8814 1529	0		-100		0		-10	
0.229	-70.82		0.093				0:00	7	-99.0		0		-10	
0.246	-68.29	_	0.056		_	7835	0.00	·/	-100		0		-10	
0.107	-86.24		0		-100		0		-100		0		-10	
0.008	-98.9		0		-100		0		-100		0		-10	
0.141	-82.4		0.08			0374	0.1	4	-85.		0		-10	
0.316	-58.6		0.181			3399 8225	0.1		-100		0		-10	
0.196	-76.8		0.086			7901	0.10	16		9136	0.05	3		3.4568
0.28	-65.4	_	0.188			0408	0.1		-100		0		-10	
0.153	-81.1	111	0.008		- 77		an ±	20	1 .00		1 -			
			1 0 0 0 0		T 00		0.0		-97.	111	0.00	15	-9	9.346
0.185	-76.6		0.076			485	0.0		5.87		0.0		_	069
0.090	11.53	51	0.067		8.5	32	1 0.0	+0	1 3.67		100		,	
	- 40		- T		Ω	24	Т-		Day	23	$\neg \neg$			
	Day 18				Day :									
are	a %	varia	at.	area		% varia		are	a	% va	rial.			
0	-1	00	0			-100	0			-100				
0	-1	00	0			-100	0			-100				
0	-1	00	0			-100	0			-100				
0	-1	00	0			-100	- 0			-100				· · · · · · · · · · · · · · · · · · ·
0	-1	00	0		-	-100	C			-100				
0	-1	00	0			-100			\longrightarrow	-100				
0	-1	00	0			-100	- 9			-100				
0		00	0			-100	- 19			-100				
0		00	0			-100	- 19			-100				
0		-100)		-100		 						
		_		M	ean :	ES.D.								
0.000	0.000 -100.000					-100.00		0.000		-100				
0.000	0	000	0	000		0.000	19	0.000		0.00)			

Table 3E: Wound healing data - Experiment 3

			Cor	npo	nent	B (00	94-00)1) lp	ng/	kg, i.v.			
Day 0	D	ay 1				ay 3				Day 5]	Day 7
area	area	_	variat.	a	rea	% va	riat.	are		% vari	at	area	
0.702	0.532		.2165	0.2		-66.8		0.159		-77.350		0.18	-74.359
0.713	0.545	_	.5624	0.4		-43:7		0.321		-54.979		0.311	-56.3815
0.854	0.731		.4028	0.6		-28.8		0.447		-47.658		0.43	-49.6487
0.698	0.597		.470	0.4		-39.6		0.321		-54.011		0.297	-57.4499
0.702	0.591	_	.812	0.4		-34.6		0.329		-53.133		0.301	-57.1225
0.791	0.529	_	.123	0.4		-45.2		0.329		-58.407		0.263	-66.7509
0.799	0.611	_	.529	0.3		-51.5		0.231		-71.088		0.113	-85.8573
0.842	0.791		057	0.4		-45.1		0.418		-50.356		0.352	-58.1948
0.834	0.628		.700	0.4		-42.3		0.393	_	-52.877		0.311	-62.7098
0.886	0.818		675	0.69		-21.6		0.55		-37.923		0.54	-39.0519
							1 ± S.					1	1 32.03.12
0.7821	0.637	-18	755	0.4	58	-41.9	62	0.350		-55.779		0.310	-60.753
0.072	0.106	8.4	82	0.13	25	12.37	3	0.110		11.255		0.119	12.906
	Day 9			Day				Day				Da	ay 16
area	% var		are	a		ariat.		rea	9/	6 variat.		area	% variat.
0.106	-84.90		0.012			2906	0		-1	00	0		-100
0.229	-67.88		0.088			6578	.0		-1	00	0		-100
0.324	-62.06		0.127		-85.	1288	0.00	7	-9	9.1803	0.0	80	-99.0632
0.204	-70.77		0.027		-9 6.	1318	0		-1	00	0		-100
0.137	-80.48		0.043		_	8746	0		-1	00	0		-100
0.137	-82.68		0.008			9886	0		-1	00	0		-100
0.053	-93.36		0		-100		0		-1	00	0		-100
0.307	-63.53		0.138			6105	0.01	1 :		8.6936	0		-100
0.2	-76.01		0.072			3669	0			00	0		-100
0.39	-55.98	19	0.212		-76.0	0722	0.01		-9	8.5327	0		-100
	~~	··				Mean	± S.	D.					
0.209	-73.76		0.073		-91.		0.00	3	-9	9.641	0.0	01	-99.906
0.106	11.734		0.069		7.85	8	0.00	15	0.	600	0.0	03	0.296
	- 40												
	ay 18			Day				Day					
area	% van	at.	are	Э		ariat.	a	rea	%	variat.			
0	-100		0		-1.00		0		-1	00 .			
0	-100		0		-100		0			00			
0	-100		0		-100		0			00			
0	-100		0		-100		0			00			
0 .	-100		0		-100		0			00			
0	-100		0		-100		0			00			
0	-100		0		-100		0		_	00			
0	-100		0		-100		0			00			
0	-100		0		-100		0			00			
0	-100		0		-100		0		- 1	00			·
0.000	T			ean :	± S.D			•					
0.000	-100.00	00	0.000		-100		0.00			00.000			
0.000	0.000		0.000	1	0.000	0	0.00	0	0.	000			

Table 4A: Wound healing data - Experiment 4

_					Pb	ospha	te bu	ffer						
Day 0	1	Day 1				ay 3			Da	y 5			Day 7	
area	area	% va	riat.	are		% vai	riat.	are	а	% varia	at.	area	% varia	ıt.
0.813	0.817	0.4920		0.785		-3.4440		0.393		-51.660)5	0.297	-63.468	
0.813	0.809	-0.492		0.817	_	0.4920	05	0.462	2	-43.173	14	0.541	-33.456	_
0.954	0.981	2.830		0.912	_	-4.402	52	0.672	2	-29.559	7	0.584	-38.784	
0.833	0.821	-1.441		0.716	5	-14.04	5 6	0.48		-42.377	7	0.404	-51.500	
0.841	0.882	4.875		0.878		4.3995	24	0.758	3	-9.8692	2	0.694	-17.479	
0.813	0.805	-0.984	}	0.608	3	-25.21	53	0.407	7	-49.938	35	0.393	-51.660	_
0.805	0.821	1.988		0.740	6	-7.329	19	0.544	1	-32.422		0.444	-44.844	_
0.769	0.825	7.282		0.762	2	-0.910	27	0.69		-10.27	31	0.657	-14.564	_
0.845	0.874	3.432		0.84	5	0		0.63	9	-24.37		0.636	-24.733	
0.817	0.829	1.469		0.78	9	-3.427	17	0.49	6	-39.29	01	0.387	-52.631	6
	<u> </u>					Mean	± S.C).						
0.830	0.846	1.945		0.78	6	-5.388		0.554		-33.29	4	0.504	-39.312	<u>:</u>
0.8303	0.054	2.757		0.08		8.563		0.127		14.919)	0.136	16.428	
0.0303		1												
	Day 9			Day	11			Day	14			Da	y 16	
area		variat.	are			variat.	aı	rea	_	variat.		area	% varia	t.
0.269		9127	0.173			7208	0.12		-84	1.6248	0.	091	-88.8069	•
0.209		0996	0.19			.6298	0.18		-7	7.6138	0.	062	-92.3739	
0.481		.5807	0.407	,		.3375	0.36		-6	1.74	0.	227	-76.2055	
0.345		.5834	0.264			.3073	0.23		-7	1.3085	0.	112	-8 6.5546	
0.522		.931	0.271			.7765	0.17		-7	9.4293	0.	137	-83.7099	
0.283		.1907	0.289			.4526	0.16	8	-7	9.3358	0.	124	-84.7478	
0.361		.1553	0.285			.5963	0.21	4	-7	3.4161	0.	074	-90.8075	
0.472		.6216	0.311		-59	:5579	0.27	1	-6	4.7594	0.	155	-79.844	
0.374		.7396	0.352		-58	.3432	0.26	4	-6	8.7574		148	-82.4852	_
0.246		.8898	0.26	l	-68	3.0539	0.19		-7	6.7442	0	112	-86.2913	1
						Mear	1 ± S.	D.						
0.365	-56	.070	0.280	0	-66	5.378	0.21	9	-7	3.773	0	.124	-85.183	
0.097		175	0.06		7.1	93	0.06	9	7.	162	0	.047	4.925	
			,								η_			
<u> </u>	Day 18		ļ		y 21		 		y 2.		+			
area		variat.		rea	+	variat.	+	area		6 variat.	╫			
0.071		1.2669	0.00	9	+	8.893	0.		-	100	+			
0.044		4.5879	0		+	00	0		-	100	+-			
0.099		9.6226	0.27		+	1.6981	0			100	+-			
0.072		1.3565	0		_	00	0			100	+-			
0.092		9.0606	0.03	<u> </u>	+-	6.3139	0	<u> </u>	-	100	+			
0.069		1.5129	0		+	00	0		\rightarrow	100	+-			
0.043		4.6584	0			2.5801	0		-+-	100	+			_
0.031		5.9688	0.28	<u> </u>	+	3.5891	10			100	+			
0.047		4.4379	0	<u> </u>		00	0		_	100	+			
0.066		1.9217	0.00			9.0208	1.0			100	+			
			100	Mear	_		100	100		100.000	+			
0.063		2.439	0.00			2.951		000		0.000	+			
0.022	12.	334	0.1	1 →	լ ե	3.522	U.C	000		,. 	L_			_

Table 4B: Wound healing data - Experiment 4

				Bov	ne Se	rum A	lbui	nin				
Day 0		Day 1			Day 3				ay 5			Day 7
area	area	% 1	variat.	area	% v	ariat.	a	rea	% va	niat.	area	
0.785	0.821	4.58	5987	0.805	2.54	7771	0.70	65	-2.547		0.622	
0.857	0.858	0.11	6686	0.786	-8.28	3471	0.6	5	-24.15		0.625	
0.837	0.874	4.42	055	0.825	-1.43	369	0.74	46	-10.87	22	0.544	
0.781	0.817	4.60	9475	0.794	1.664		0.70	08	-9.346	99	0.611	
0.853	0.924	8.32	3564	0.882	3.399	9766	0.73	35	-13.83	35	0.668	
0.845	0.895	5.91		0.785	-7.10	059	0.72	27	-13.96	45	0.618	
0.833	0.893		2881	0.878	5.402		0.63	75	-18.96	76	0.453	
0.854	0.916	7.25	9953	0.899	5.269	9321	0.71	12	-16.62	76	0.48	-43.7939
					Mea	$n \pm S.D$).					
0.831	0.875	5.30	5	0.832	0.183	3	0.7	15	-13.78	9	0.578	-30.322
0.031	0.040	2.55	3	0.047	5.327	7	0.03	38	6.513		0.077	
<u> </u>												
	Day 9			Day 11	a) a)		Da	y 14			Da	y 16
area	% va	ariat.	are	a %	variat.	are	a	%	variat.	ar	ea	% variat.
0.538	-31.4	65	0.344	-56	.1783	0.244			9172	0.169		-78.4713
0.557	-35.0		0.368	-57	.0595	0.329		-61	6103	0.162		-81.0968
0.413	-50.6		0.287	-65	.7109	0.226		-72	9988	0.101		-87.9331
0.554	-29.0		0.329	-57	.8745	0.259		-66	8374	0.138		-82.3303
0.448	-47.4		0.352	-58	.7339	0.239		-71	9812	0.173	3	-79.7186
0.561	-33.6		0.299	-64	.6154	0.255		-69	8225	0.21		-75.1479
0.314	-62.3		0.255	-69	.3878	0.22		-73.	5894	0.166	,	-80.072
0.404	-52.6	932	0.266	-68	8525	0.239		-72.	0141	0.166	,	-80.5621
					Mear	$1 \pm S.D.$						
0.474	-42.7		0.313	-62	302	0.251		-69.	721	0.161		-80.667
0.092	12.09	7	0.042	5.4	13	0.034		3.97	9	0.031		3.631
<u>-</u> -												
	ay 18			Day 21			Day	/ 23			Da	y 25
area	% va		area	% 1	≀ariat.	are	а	% v	rariat.	ar	ea	% variat.
0.062	-92.10		0.007	-99	1083	0		-100)	0		-100
0.039	-95.44	192	0.021		5496	0		-100)	0		-100
0	-100		0.000	-100		0		-100)	0		-100
0.081	-89.62		0.031		0307	0		-100)]	0		-100
0.094	-88.98		0.055		5522	0.018		-97.	8898	0		-100
0.145	-82.84		0	-100		0		-100		0		-100
0.083	-90.0		0.008		0396	0		-100		0		-100
0.107	-87.47	/07	0	-100		0	1	-100		0		-100
	γ					± S.D.			-		-	
0.076	-90.81		0.015		160	0.002		-99.	736	0.000		-100.000
0.044	5.178		0.020	2.32	9	0.006		0.74	6	0.000		0.000

CLAIMS

- 1. Use of Component B for the manufacture of a medicament useful as cicatrizant.
- 2. The use according to claim 1 in the treatment of wounds, ulcers and other traumatic lesions to any of the tissues in the body.
- 3. A pharmaceutical composition useful as cicatrizant comprising Component B, as active ingredient, together with a pharmaceutically acceptable excipient.
 - 4. Method of treatment of wounds, ulcers and other traumatic lesions to any of the tissues in the body, comprising administering an effective amount of Component B, together with a pharmaceutically acceptable carrier.

1/10

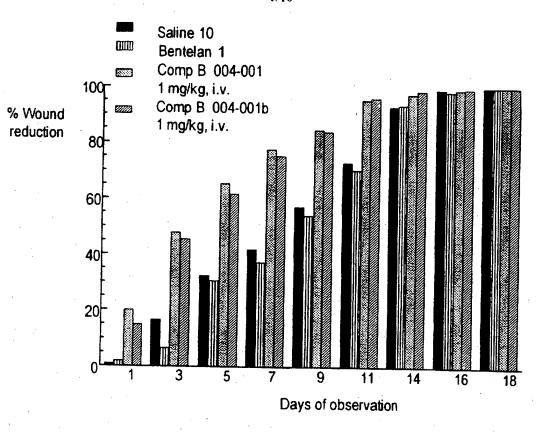


Figure 1

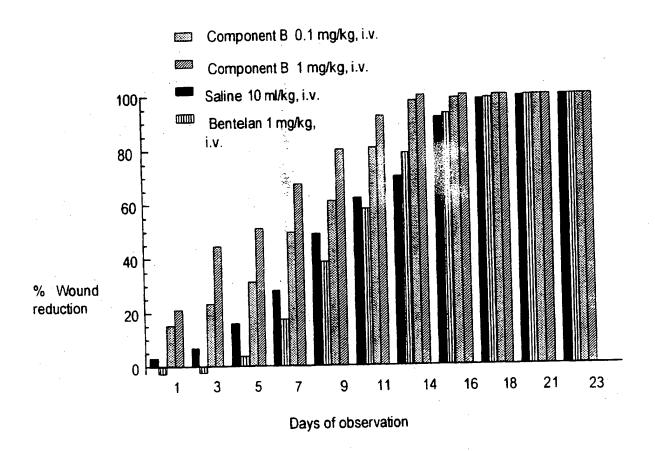


Figure 2

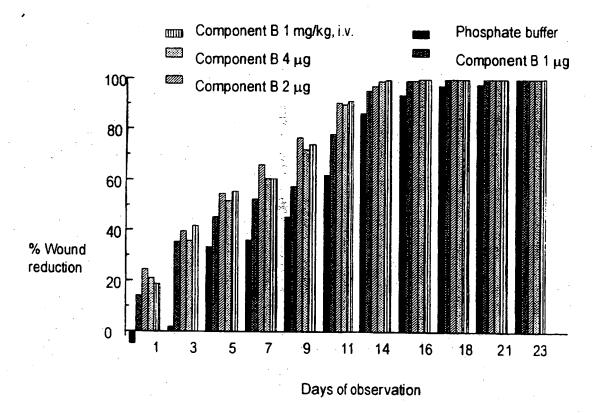


Figure 3

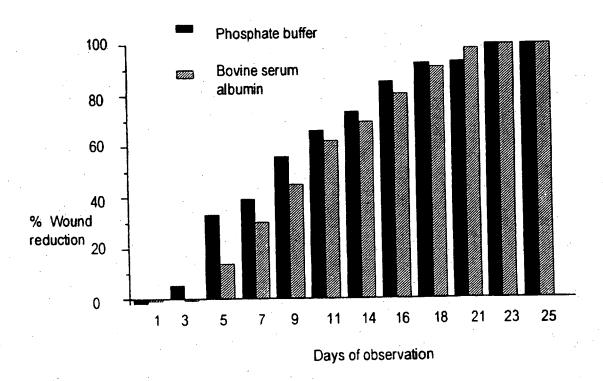


Figure 4

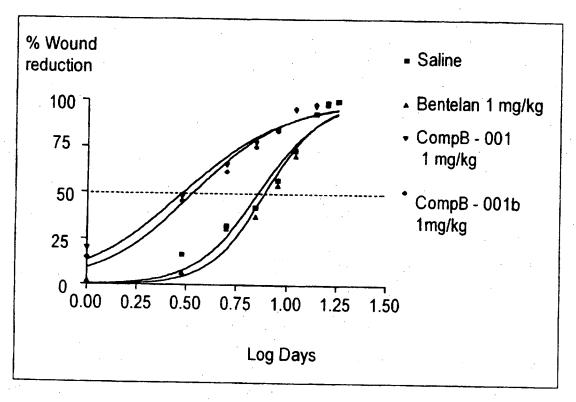


Figure 5

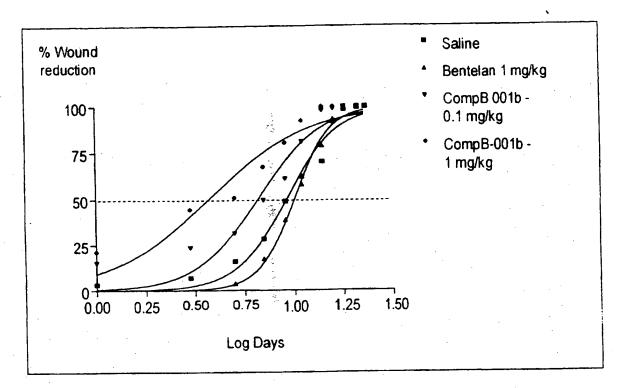


Figure 6

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Wound area

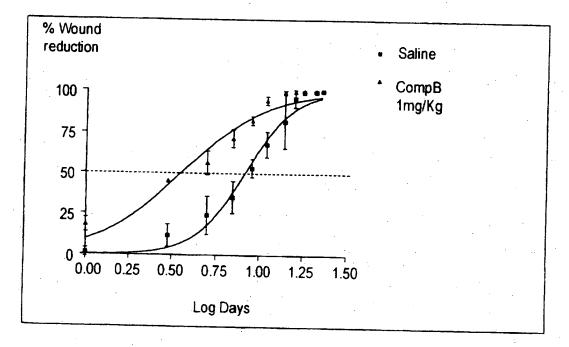


Figure 7

Cumulative Frequency

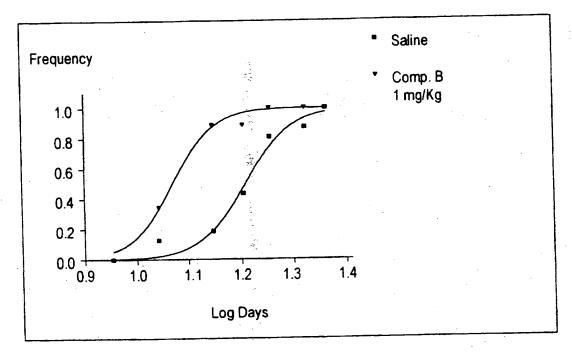


Figure 8

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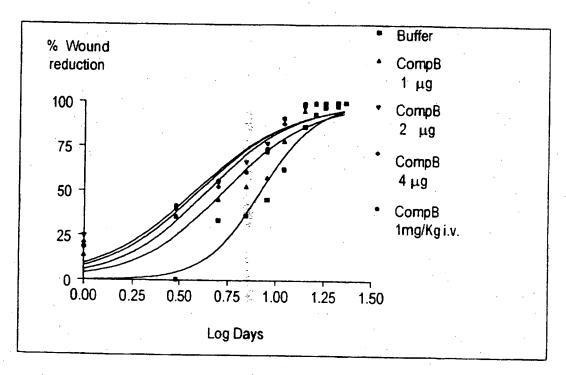


Figure 9

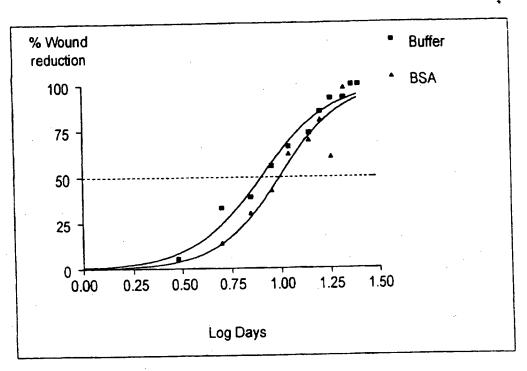


Figure 10

INTERNATIONAL SEARCH REPORT

inte onal Application No. PC:/EP 96/01702

A. CLASS	SIFICATION OF SUBJECT MATTER A61K38/17		
A coordina	to lever and David Grand and		
	to International Patent Classification (IPC) or to both national class SEARCHED	ssification and IPC	
Minimum	documentation searched (classification system followed by classific	cation symbols)	
IPC 6	A61K C07K		
Documenta	tion searched other than minimum documentation to the extent the	at such documents are included in the helds i	searched
	•		,
Electronic	data base consulted during the international search (name of data b	are and where resolved search to-re word	· · · · · · · · · · · · · · · · · · ·
·	the many of the many of the control	ase and, where practical, search terms used,	
		<u> </u>	
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
^	110 4 04 14050 (400455 0005450		
Α	WO,A,94 14959 (APPLIED RESEARCH ARS HOLDING N.V.) 7 July 1994	SYSTEMS	1-4
	cited in the application	·	, ,
	see page 13, line 5 - page 14, l	ine 1;	
	claims 1,12-16		
Α	EP,A,O 046 039 (G.D. SEARLE & CO).) 17	1-4
	February 1982 see page 1, line 8 - line 16		
	see page 13, line 13 - line 23		·
·			
	·		
			
Furt	er documents are listed in the continuation of box C.	Patent family members are listed in	n annex.
* Special cat	egories of ated documents :	'T' later document published after the inte	mational filing date
'A' docume	nt defining the general state of the art which is not red to be of particular relevance	or priority date and not in conflict will cited to understand the principle or th	th the application but
"E" carner of	ocument but published on or after the international ate	invention 'X' document of particular relevance; the	darmed invention
ALD CL	nt which may throw doubts on priority claim(s) or sited to establish the publication date of another	cannot be considered novel or cannot unvolve an inventive step when the do	rument is taken alone
Gradou	or other special reason (as specified) nt referring to an oral disclosure, use, exhibition or	"Y" document of particular relevance; the cannot be considered to involve an involvement is combined with one or mo	ventive step when the
orner in	eans at published prior to the international filing date but	ments, such combination being obvious in the art.	is to a person skilled
later th	in the priority date claimed	'&' document member of the same patent	family
Date of die a	ctual completion of the international search	Date of mailing of the international sea	urch report
12	December 1996	18.12.96	
Name and m	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Face (+31-70) 340-2040, Tx. 31 651 epo ni,	Ryckebosch, A	
em PCT ISA/2		<u> </u>	

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INTERNATIONAL SEARCH REPORT

rnauonai application No.

PCT/EP 96/01702

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his International Search Report has not been es	of contain claims	under Arucle 17(2)(1)	for the following reasons:	1
his International Search Report has not been es	tablished in respect or bertuin dame			1
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because they relate to subject matter no	or required to be searched by this re-	hod of treatme	ent of the	1
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human/animal body, the	search has been carrie			1
alleged effects of the	Compound/ Compositories			1
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